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Loopback Detection Commands



CONTENTS



- Chapter 1 Loopback Detection Commands ----- 1**
- 1.1 loopback-detection-----1
- 1.2 loopback-detection destination-address -----2
- 1.3 loopback-detection down-time-----2
- 1.4 loopback-detection hello-time -----3
- 1.5 show loopback-detection -----4

Chapter 1 Loopback Detection Commands

1.1 loopback-detection

[Function]

Start/close the loopback-detection on designated port.

[Command Format]

loopback-detection {*enable* | *disable*} **port-list** {*portlist* | *all*}

[Parameter]

enable: enable loopbak-detection function.

disable: disable loopback detection function.

portlist: physical port number, range from 1-26, use “,” and “-” to set the input of different ports;

all: all the ports

[Default]

Enable the loopback-detection for all the ports

[Command Modes]

Global configuration mode; privileged user (priority 15)

[Executing Command Instruction]

User with priority 15 can use this command

[Command Executing Echo]

Failed to set loopback-detection on port X!

Set successfully

Set unsuccessfully

[Example]

Start the loopback-detection function for port 6~10:

```
Raisecom(config)# loopback-detection enable port-list 6-10
```

Start the loopback-detection function for all the ports:

```
Raisecom(config)# loopback-detection enable port-list all
```

Close the loopback-detection function for port 7~9:

```
Raisecom (config)# loopback-detection disable port-list 7-9
```

Close the loopback-detection function for all the ports:

```
Raisecom (config)# loopback-detection disable port-list all
```

[Related commands]

Commands	Description
show loopback-detection	Show the state information of all the ports

1.2 loopback-detection destination-address**[Function]**

Set the mac type of loopback-detection, it could be unit cast , multicast or broadcast address, and the mac aging time will be zero. The default loopback-detection mac is broadcast.

[Command Format]

loopback-detection destination-address [*mac-address* **vlan** *vlan-id*]

[Parameter]

mac-address: configure the target MAC address.

vlan-id: VLAN ID.

[Default]

Target MAC is broadcast address.

[Command Modes]

Global configuration mode; privileged user (priority 15) .

[Executing Command Instruction]

Only privileged user with priority 15 can use this command.

[Explanation of command execution echo]

Failed to set loopback-detection destination address!

Set successfully

[Example]

Set the loopback-detection packet to broadcasting packet:

Raisecom(config)# **loopback-detection destination-address**

Recover the loopback-detection packet to particular MAC:

Raisecom (config)# **loopback-detection destination-address** *1234.1234.1234* **vlan** *1*

[Related commands]

Commands	Description
show loopback-detection	Show the status of loopback-detection

1.3 loopback-detection down-time**[Function]**

When the loop is detected on a switch, the relative port will be shutdown, and this time will

decide the shutdown time.

[Command Format]

loopback-detection down-time {<0-65534> | *infinite*}

[Parameter]

<0-65534>: time when the state of loopback port is “down”, second as the unit, 0 stands for do not shutdown the port which has loop;

infinite: stands for shutdown the relative port and will not recover automatically

[Default]

Infinite

[Command Modes]

Physical port configuration mode; privileged user(priority 15).

[Executing Command Instruction]

only the user with priority 15 can use this command

[Explanation of command execution echo]

Set unsuccessfully on port X!

Set successfully

[Example]

Set the time of loopback-detection down to be 100 seconds:

Raisecom(config-port)#**loopback-detection down-time 100**

[Related commands]

Commands	Description
show loopback-detection	Show state of port loopback-detection

1.4 loopback-detection hello-time

[Function]

Set the hello time of loopback-detection (the time interval of sending loopback-detection packet). Use **no** command to recover the default setting.

[Command Format]

loopback-detection hello-time <1-65535>

no loopback-detection hello-time

[Parameter]

<1-65535>: time interval of loopback-detection, second as the unit

[Default]

The loopback detection packets will be sent every 4 seconds

[Command Modes]

Global configuration mode; privileged user (priority 15).

[Executing Command Instruction]

Only the privileged user with priority 15 can use this command

[Explanation of command execution echo]

Failed to set sending interval !

Set successfully

[Example]

Set the loopback-detection interval to 3 seconds:

```
Raisecom(config)# loopback-detection hello-time 3
```

Recover the loopback-detection interval to default setting:

```
Raisecom (config)# no loopback-detection hello-time
```

[Related commands]

Commands	Description
show loopback-detection	Show state of port loopback-detection.

1.5 show loopback-detection

[Function]

Show the loopback-detection state for the port.

[Command Format]

show loopback-detection

[Command Modes]

Privileged EXEC; privileged user.

[Explanation of command execution echo]

Show the time period of loopback-detection and target address. Show port loopback-detection state including the port loopback-detection function state (enable or disable); whether there is a loopback setting for the port: yes-loopback, no- no loopback; port state and closing time; the source port which has loopback with this port.

[Example]

Set the time period for loopback-detection to 3 second:

```
Raisecom(config)# loopback-detection hello-time 3
```

Close the loopback detection function for port 1:

```
Raisecom(config)# loopback-detection disable port-list 1
```

Show port loopback state:

```
Raisecom# show loopback-detection
```

Show the content as following, port 2 and port 6 form external loopback, port 9 self-loop.

Period of loopback-detection: 3 s

VLAN: 1

Destination address: FFFF.FFFF.FFFF

Port Detection State Loop Flag State/Time Source Port

```
-----
1      disable      no      --/infin  --
2      enable       no      --/infin  --
3      enable       no      --/infin  --
4      enable       no      --/infin  --
5      enable       no      --/infin  --
6      enable       yes     down/infin 2
7      enable       no      --/infin  --
8      enable       no      --/infin  --
9      enable       yes     down/infin 9
```

[Related commands]

Commands	Description
loopback-detection { <i>enable</i> / <i>disable</i> } port-list { <i>all</i> / <i>port-list</i> }	Start/close the loopback-detection function of designated port
loopback-detection hello-time <1-65535>	Configure the time period of loopback-detection.
loopback-detection destination-address [<i>mac-addr</i> vlan <i>vid</i>]	Configure the loopback-detection address.
loopback-detection down-time { <i>infinite</i> <0-65534>}	Shutdown loop port time.



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